RESPONSE UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE REQUESTED
EXAMINING GROUP 2179
PATENT
Attorney Docket No. 09700.0061-00000
SAP Reference No. 2003P00321 US

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer program product, tangibly embodied in a non-transitory computer-readable storage medium, comprising instructions operable on a computer to:

> provide a user interface for a computer program application, the user interface being operable to receive input from a user interacting with the computer and from the input to generate user interaction events;

> identify one or more future user interaction events that may occur while the user interface is in a current user interface state;

> estimate a likelihood for the future user interaction events to occur based on a history of previous user inputs to the user interface;

> select one or more of the future user interaction events to pre-process based on the estimated likelihoods that the future user interaction events will occur;

> generate, while the user interface is in the current user interface state, properties of future user interface states, the future user interface states corresponding to the selected future user interaction events;

> pre-process, while the user interface is in the current user interface state, the selected future user interaction events to generate one or more

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the corresponding future user interface states based on the
generated properties of the corresponding future user interface
states while the user interface is in the current user interface state;

pre-render, while the user interface is in the current user interface state,
future user interface appearances corresponding to the generated
future user interface states; and

store the pre-rendered future user interface appearances for later use.

2. (Previously Presented) The product of claim 1, further comprising
instructions to:

receive an actual input from the user and, if a first one of the future user
interface states corresponds to the actual input, display the future
user interface appearance corresponding to the first user interface
state.

3. (Cancelled).

4. (Previously Presented) The product of claim 2, further comprising
instructions to generate code to render the first user interface state.

5. (Previously Presented) The product of claim 4 wherein the code to render
the first user interface state comprises HTML (Hypertext Markup Language) code.

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6. (Cancelled).

7. (Previously Presented) The product of claim 1, further comprising

instructions to:

> specify an order for pre-processing the future user interaction events
>> based on the estimated likelihoods that the future user interaction
>> events will occur.

8. (Cancelled).

9. (Previously Presented) The product of claim 1, wherein:

> the user interface comprises a control having instructions to establish the
>> estimated likelihoods for the future user interaction events.

10. (Cancelled).

11. (Previously Presented) The product of claim 1, wherein:

> the instructions to pre-process the selected future user interaction events
>> comprise instructions to obtain data from the computer program
>> application for the generated future user interface states.

12. (Previously Presented) The product of claim 1, wherein each of the

selected future user interaction events has estimated likelihoods of occurrence

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exceeding a threshold probability, and the future user interaction events other than the

selected future user interaction events have estimated likelihoods that do not exceed

the threshold probability.

13. (Previously Presented) The product of claim 1, wherein:

> the computer program product is a program running on a server computer
> > in data communication with a client computer; and

> the instructions to provide a user interface comprise instructions to provide
> > the user interface in a Web browser.

14. (Currently Amended) A ~~computer-implemented~~ computer-implemented method,
comprising the steps implemented by one or more computers of:

> providing, by the one or more computers, a user interface for a computer
> > program application, the user interface being operable to receive
> > input from a user interacting with the one or more computers and
> > from the input to generate user interaction events;

> identifying by the one or more computers, one or more future user
> > interaction events that may occur while the user interface is in a
> > current user interface state;

> estimating, by the one or more computers, a likelihood for the future user
> > interaction events to occur based on a history of previous user
> > inputs to the user interface;

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selecting, by the one or more computers, one or more of the future user
interaction events to pre-process based on the estimated
likelihoods that the future user interaction events will occur;

generating, by one or more computers and while the user interface is in
the current user interface state, properties of future user interface
states, the future user interface states corresponding to the
selected future user interaction events;

pre-processing, by the one or more computers and while the user
interface is in the current user interface state, the selected future
user interaction events to generate ~~one or more~~ the corresponding
future user interface states based on the generated properties of
the corresponding future user interface states ~~while the user
interface is in the current user interface state~~;

pre-rendering, by the one or more computers and while the user interface
is in the current user interface state, future user interface
appearances corresponding to the generated future user interface
states; and

storing the pre-rendered future user interface appearances for later use.

15. (Previously Presented) The method of claim 14, further comprising:

receiving an actual input from the user and, if a first one of the future user
interface states corresponds to the actual input, displaying the
future user interface appearance corresponding to the first user
interface state.

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16. (Cancelled).

17. (Previously Presented) The method of claim 14, further comprising:

    specifying an order for pre-processing the future user interaction events
        based on the estimated likelihoods that the future user interaction
        events will occur.

18. (Currently Amended) An apparatus, comprising:

    a processor for executing program instructions; and

    a computer-readable storage medium storing the program instructions, the
        program instructions, when executed by the processor, performing
        a process comprising:

        providing a user interface for a computer program
            application, the user interface being operable to
            receive input from a user interacting with the
            apparatus and from the input to generate user
            interaction events;

        identifying one or more future user interaction events that
            may occur while the user interface is in a current user
            interface state;

        estimating a likelihood for the future user interaction events
            to occur based on a history of previous user inputs to
            the user interface;

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selecting one or more of the future user interaction events to preprocess based on the estimated likelihoods that the future user interaction events will occur;

generating, while the user interface is in the current user interface state, properties of future user interface states, the future user interface states corresponding to the selected future user interaction events;

pre-processing, while the user interface is in the current user interface state, the selected future user interaction events to generate ~~one or more~~ the corresponding future user interface states based on the generated properties of the corresponding future user interface states ~~while the user interface is in the current user interface state~~;

pre-rendering, while the user interface is in the current user interface state, future user interface appearances corresponding to the generated future user interface states; and

storing the pre-rendered future user interface appearances for later use.

19. (Previously Presented) The apparatus of claim 18, the process further comprising:

receiving an actual input from the user and, if a first one of the future user interface states corresponds to the actual input, displaying the

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future user interface appearance corresponding to the first user interface state.

20. (Cancelled).

21. (Previously Presented) The apparatus of claim 19, the process further comprising:

specifying an order for pre-processing the future user interaction events based on the estimated likelihoods that the future user interaction events will occur.

22. (Previously Presented) The product of claim 12, further comprising instructions for raising or lowering the threshold probability.